Two families of plant-derived ingredients for superior formulation

**FARMAL**® multifunctional polymers
A line of high-quality, renewable and plant-derived ingredients that complement and enhance key physical and sensorial attributes of your personal care products. Improving texture and sensory so you can achieve the superior results you want, with a natural touch.

**PENCARE™ DP** cationic polymer
A proprietary, bio-based, cationic polymer whose superior deposition and enhanced conditioning leaves hair and skin softer and smoother than ever before.
**Trade name**

**INCI Chemical charge**

**Physical form**

**Salt**

**Tolerance**

**Carrier for actives**

**Rheology modification**

**Foam stability**

**Mitigates oiliness**

**Deposition aid**

**Reduce wet comb**

**Aesthetic Enhancer**

**Film former**

**Provides humectancy**

**Application**

<table>
<thead>
<tr>
<th><strong>Product</strong></th>
<th><strong>Description</strong></th>
<th><strong>Application</strong></th>
<th><strong>INCI</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>FARMAL® CS /three.lf/seven.lf/five.lf/seven.lf</td>
<td>Zea Mays (Corn) Starch Non-ionic Powder</td>
<td>Body &amp; baby powders, makeup powders, dry shampoo, creams, lotions, cleansing products, deodorants, bar soaps</td>
<td></td>
</tr>
<tr>
<td>FARMAL MS /six.lf/eight.lf/two.lf/two.lf</td>
<td>Sodium Hydroxypropyl Starch Phosphate Non-ionic Powder</td>
<td>Body wash, cream cleansing products</td>
<td></td>
</tr>
<tr>
<td>PENCARE® DP /one.lf/zero.lf/one.lf/five.lf</td>
<td>Starch Hydroxypropyltrimonium Chloride Cationic Powder</td>
<td>Shampoo, conditioner, body wash, lotion, cream, styling products</td>
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<tr>
<td>FARMAL HFS /two.lf/six.lf/five.lf/six.lf</td>
<td>Hydrolyzed Corn Starch Non-ionic Liquid</td>
<td>Foaming cleansers, shampoo, body wash, cleansing products, wipes</td>
<td></td>
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<tr>
<td>GLYSTAR® A/hyphen.caseA/three.lf/one.lf</td>
<td>Hydrogenated Starch Hydrolysate Non-ionic Liquid</td>
<td>Foaming cleansers, shampoo, body wash, cleansing products, wipes, cream, lotion</td>
<td></td>
</tr>
<tr>
<td>FARMAL MD /one.lf/five.lf</td>
<td>Maltodextrin Non-ionic Powder</td>
<td>Bath products, bar soaps, dry shampoo, hair styling products</td>
<td></td>
</tr>
</tbody>
</table>

Ingredion Incorporated

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**Development Solutions**

*Developing ideas. Delivering solutions.*

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Get Started Today

Talk to us about using Ingredion to create extraordinary personal care products start with exceptional ingredients.

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